

DEVELOPMENTAL COGNITIVE NEUROSCIENCE

Fourth Edition

Mark H. Johnson and Michelle de Haan



WILEY Blackwell

Developmental Cognitive Neuroscience An Introduction

Kathleen Armour

Developmental Cognitive Neuroscience An Introduction:

Developmental Cognitive Neuroscience Mark H. Johnson, 2010-10-18 The third edition of Developmental Cognitive Neuroscience presents a thorough updating and enhancement of the classic text that introduced the rapidly expanding field of developmental cognitive neuroscience Includes the addition of two new chapters that provide further introductory material on new methodologies and the application of genetic methods in cognitive development Includes several key discussion points at the end of each chapter Features a greater focus on mid childhood and adolescence to complement the previous edition's emphasis on early childhood Brings the science closer to real world applications via a greater focus on fieldwork Includes a greater emphasis on structural and functional brain imaging Developmental Cognitive Neuroscience Michelle D. H. de Haan, Iroise Dumontheil, Mark H. Johnson, 2023-04-03 Landmark text focusing on the development of brain and behavior during infancy childhood and adolescence Developmental Cognitive Neuroscience provides an accessible introduction to the main methods theories and empirical findings of developmental cognitive neuroscience The focus is on human development from in utero to early adulthood but key comparative work is also included This new edition covers research in clinical medical populations educational applications and major advancements in methods and analysis in particular with increasing longitudinal research focusing on understanding the mechanisms of cognitive development It also contains a new chapter on global and cross cultural perspectives outlining how developmental cognitive neuroscience has been applied in different settings and how techniques can be successfully adapted. The text features a variety of student friendly features such as chapter end discussion applications of basic research and introductions to key experimental methods An accompanying related resource website for students and educators that includes a test bank of multiple choice questions is also provided Other sample topics covered in Developmental Cognitive Neuroscience include Biology of change methods and populations from gene to brain building a brain and vision orienting and attention Perceiving and acting in a world of objects learning and long term memory language and prefrontal cortex working memory and decision making Perceiving and acting in the social world educational neuroscience interactive specialization and integrating development cognitive neuroscience Mid childhood and adolescent development social cognition and neuroimaging and broader cognitive neuroscience approaches and theory With expansive yet accessible coverage of the subject Developmental Cognitive Neuroscience is an ideal resourcefor upper level undergraduate and early postgraduate readers. The text will further appeal to professionals in fields that have adopted developmental cognitive neuroscience approaches such as education clinical psychology pediatric medicine and global health <u>Developmental Cognitive Neuroscience</u> Mark Henry Johnson, 1997

Developmental Cognitive Neuroscience: An Introduction Mark Johnson,1997-01-01 Developmental cognitive neuroscience is concerned with the relation between the growing brain and the development of mental processes Bringing together recent advances in molecular biology neural networks and brain imaging this interdisciplinary field is rapidly

expanding and offers a cohesive account of the construction of the human mind This book is the first comprehensive single authored introduction to the field and reviews the current state of knowledge in the context of an integrative theoretical framework within which the plasticity and maturation of the brain are analysed A central theme of the book is that while there is no evidence of innate cognitive representations in the cortex the type and location of representation that subsequently emerge are constrained by several factors both intrinsic and extrinsic to the infant Further the elongated postnatal development of the human brain reveals a differential development of neural architecture that can be used to make predictions about sequences of cognitive development The book also outlines a number of avenues for future research

Developmental cognitive neuroscience, <u>Developmental Cognitive Neuroscience</u> Michelle D. H. de Haan, Iroise Dumontheil, Mark H. Johnson, 2023-03-28 Landmark text focusing on the development of brain and behavior during infancy childhood and adolescence Developmental Cognitive Neuroscience provides an accessible introduction to the main methods theories and empirical findings of developmental cognitive neuroscience. The focus is on human development from in utero to early adulthood but key comparative work is also included This new edition covers research in clinical medical populations educational applications and major advancements in methods and analysis in particular with increasing longitudinal research focusing on understanding the mechanisms of cognitive development It also contains a new chapter on global and cross cultural perspectives outlining how developmental cognitive neuroscience has been applied in different settings and how techniques can be successfully adapted The text features a variety of student friendly features such as chapter end discussion applications of basic research and introductions to key experimental methods. An accompanying related resource website for students and educators that includes a test bank of multiple choice questions is also provided Other sample topics covered in Developmental Cognitive Neuroscience include Biology of change methods and populations from gene to brain building a brain and vision orienting and attention Perceiving and acting in a world of objects learning and long term memory language and prefrontal cortex working memory and decision making Perceiving and acting in the social world educational neuroscience interactive specialization and integrating development cognitive neuroscience Mid childhood and adolescent development social cognition and neuroimaging and broader cognitive neuroscience approaches and theory With expansive yet accessible coverage of the subject Developmental Cognitive Neuroscience is an ideal resourcefor upper level undergraduate and early postgraduate readers. The text will further appeal to professionals in fields that have adopted developmental cognitive neuroscience approaches such as education clinical psychology pediatric medicine and global health

Developmental Cognitive Neuroscience Mark H. Johnson, Michelle de Haan, 2015-04-21 Developmental Cognitive Neuroscience 4th Edition is a revised and updated edition of the landmark text focusing on the development of brain and behaviour during infancy childhood and adolescence Offers a comprehensive introduction to all issues relating to the nature of brain behaviour relationships and development New or greatly expanded coverage of topics such as epigenetics and gene

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Fundamentals of Developmental Cognitive Neuroscience Heather Bortfeld, Silvia A. Bunge, 2024-02 A thorough introduction to human behaviour and brain development from the prenatal period through to infancy childhood and adolescence Brain Development and Cognition: A Reader (1st Edition, Paper) Mark Johnson, 1991-01-16 The first edition of this successful reader brought together key readings in the area of developmental cognitive neuroscience for students Now updated in order to keep up with this fast moving field the volume includes new readings illustrating recent developments along with updated versions of previous contributions These revisions ensure that the collection will remain a crucial resource for anyone teaching developmental cognitive neuroscience or cognitive development The reader is wide ranging covering every aspect of developmental cognitive neuroscience New pieces for the second edition include writing on individual development and evolution on the structural and functional development of the brain and on object recognition and sensitive periods while articles updated include those on the neurobiology of cognitive and language processing and self organization in developmental processes The editors provide linking text to clarify the significance of each contribution

Handbook of Developmental Cognitive Neuroscience, second edition Charles A. Nelson, Monica Luciana, 2008-07-11 The second edition of an essential resource to the evolving field of developmental cognitive neuroscience completely revised with expanded emphasis on social neuroscience clinical disorders and imaging genomics. The publication of the second edition of this handbook testifies to the rapid evolution of developmental cognitive neuroscience as a distinct field Brain imaging and recording technologies along with well defined behavioral tasks the essential methodological tools of cognitive neuroscience are now being used to study development Technological advances have yielded methods that can be safely used to study structure function relations and their development in children s brains. These new techniques combined with more refined cognitive models account for the progress and heightened activity in developmental cognitive neuroscience research. The Handbook covers basic aspects of neural development sensory and sensorimotor systems language cognition emotion and the implications of lifelong neural plasticity for brain and behavioral development. The second edition reflects the dramatic expansion of the field in the seven years since the publication of the first edition. This new Handbook has grown from forty one chapters to fifty four all original to this edition. It places greater emphasis on affective and social neuroscience an offshoot of cognitive neuroscience that is now influencing the developmental literature. The second edition also places a greater emphasis on clinical disorders primarily because such research is inherently translational in nature Finally the book s new discussions of recent breakthroughs in imaging genomics include one entire chapter devoted to the subject. The

intersection of brain behavior and genetics represents an exciting new area of inquiry and the second edition of this essential reference work will be a valuable resource for researchers interested in the development of brain behavior relations in the context of both typical and atypical development

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